Searching PAJ Page 1 of 1

PATENT ABSTRACTS OF JAPAN

(11)Publication number:

05-305221

(43)Date of publication of application: 19.11.1993

(51)Int.Cl.

B01D 65/02 C02F 1/44

C02F 1/78

(21)Application number: 04-109744 (22)Date of filing:

28.04.1992

(71)Applicant: TOSHIBA CORP

(72)Inventor: HAYASHI KOJI

MENJU TAKU

(54) MEMBRANE SEPARATION WATER TREATMENT APPARATUS

(57)Abstract:

PURPOSE: To effectively wash the membrane elements of a membrane module device and to reduce the consumption amount of ozone gas at the time of washing.

CONSTITUTION: A raw water circulating passage is formed between a raw water tank 4 and a membrane module device 1 and a treated water circulating passage is formed between a treated water tank 9 and the membrane module device 1. Injectors 8, 13 for the inflow of ozone gas are respectively provided to a circulating inlet pipe 7a and a backwashing pipe 12. A gas-liquid separation tank 3 is provided to a transmitted water pipe 17 and the ozone gas separated by the gas-liquid separation tank 3 is guided to the injector 8 by an ozone gas pipe 18.

